

## ABSTRACT OF THE DISCLOSURE

The system and method for daisy-chained optical repeaters includes multiple optical repeaters connected in series by optical cables. The final optical repeater is connected to a base station by an optical cable. Each optical repeater includes a digital summer. In operation, each optical repeater sums a converted baseband digital signal with a baseband digital signal from a prior stage. The final stage transmits the summed baseband digital signal to the base station. The system and method advantageously reduces system cost and further reduces the level of noise in a signal received by the base station.